IRANI ENGINEERING PETROLEUM ENGINEER

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SACRAMENTO, CALIFORNIA 95864 916-482-2847 FAX 916-482-7514

January 5, 2016

Pacific Gas and Electric Company 245 Market Street, Room 1309 San Francisco, CA 94105

Attn: Michael Medeiros

Manager, Renewable Energy Development

Re: Plugging and Abandonment Report (EPA Form 7520-14) and Well Schematic PG&E Test Injection/Withdrawal Well 1, King Island, San Joaquin County, California

Dear Mr. Medeiros:

Please find attached the Plugging and Abandonment Report (prepared on EPA Form 7520-14) and post-plugging well schematic for PG&E Test Injection/Withdrawal Well 1. Irani Engineering certifies that the well was plugged in accordance with the EPA approved Plugging and Abandonment Plan prepared by Irani Engineering dated October 22, 2015, and that the attached Plugging and Abandonment Report is accurate.

No. 1613

Please feel free to contact me if you have any questions.

Regards, Saeed Irani,

Registered Petroleum Engineer

President

Irani Engineering

Enclosures:

Attachment 1: Plugging and Abandonment Report on EPA Form 7520-14

Attachment 2: Post-plugging well schematic

United States Environmental Protection Agency Washington, DC 20460

VEI	A	PLU	GGING	AND) ABA	NDON	MEN	IT PLA	N				
	Address of Fa		Name and Address of Owner/Operator										
8601 W. Ei	g Island Compressed ght Mile Road California 95219	acility	Pacific Gas and Electric Company 77 Beale St. San Francisco, California 94105										
	ate Well and O		tate California			Count San Jo	•		Permit Number R9UIC-CA5-FY13-1				
Sect	tion Plat - 640 A	S	Surface Location Description										
		N	s	SW 1/4 of NE 1/4 of SW 1/4 of NW 1/4 of Section 27 Township 3N Range 5E									
			 	Locate well in two directions from nearest lines of quarter section and drilling unit									
-	i		ı		(₩0 (,					
-	+			Surface Location 1977 ft. frm (N/S) N Line of quarter section									
L.	╵╸ ┝╶┤╴	╼┣╾┽╼┞╸┽╼╿		and 865 ft. from (E/W) <u>W</u> Line of quarter section.									
		_		TYPE OF AUTHORIZATION WELL ACTIVITY									
w		-	✓ Individual Permit □ CI						ASSI ✓ CLASS V				
			Area Permit					CLASS II					
L.	ı । ! → }-		Rule					Brine Disposal					
	1 1 1	-	Number of Wells 1					Enhanced Recovery					
	ナマトナー	1							Hydrocarbon Storage				
L	ئىنىن			Piacentine				CLASS III					
		S	L	Lease Name				Well Number PG&E Test Injection/Withdrawal Well 1					
	CA	SING AND TUBING RECORE	AFTER PL	R PLUGGING				METHOD OF EMPLACEMENT OF CEMENT PLUGS					
SIZE	IZE WT (LB/FT) TO BE PUT IN WELL (FT)			EFT IN W	ELL (FT)	HOLE SI	ZE	√ The	Balance Method				
20"	NA	60'	43'			28"		The	Dump Bailer Method				
13-3/8"	54.5.	(20)				17-1/2"		The	Two-Plug Method				
9-5/8"	40.0	4716'	4699'			12-1/4"		Oth	er				
5-1/2"	17" Lnr/Screen	200'	17"(Gravel P)			P)				T			
CEMENTING TO PLUG AND ABANDON DATA:					PLUG #			PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of Hole or Pipe in which Plug Will Be Placed (inche					5-1/2"			-5/8"/Anls	9-5/8"				
Depth to Bottom of Tubing or Drill Pipe (ft.					4814'			84' 50	310'				
Sacks of Cement To Be Used (each plug)					240 276	150		50 88	155				
Slurry Volume To Be Pumped (cu. ft.) Calculated Top of Plug (ft.)					4026'			43'	Surface				
Calculated Top of Plug (π.) Measured Top of Plug (if tagged ft.)					4054'			45'	Surface				
	/t. (Lb./Gal.)		15.8		3570' 15.8		5.8	15.8					
	ment or Other		Class G		Class G	С	Class G	Class G					
		ST ALL OPEN HOLE AND/OR	PERFORA	TED INTE	RVALS A	ND INTERV	ALS W	HERE CAS	ING WILL BE	VARIED (if a	ıny)		
	From	From					То						
4614' 4814'													
		187 B			l								
\$198,00	ed Cost to Plug ()	, weils											
			,						Constitution of the state of th				
at in	ttachments and	e penaity of law that I have I that, based on my inquiry ue, accurate, and complete. e and imprisonment. (Ref.	of those in Iam awa	examine dividuals re that th	eimamadie	familiar wi	seinie t	or ontainii	ia me miori	nauon, i ben	CAC filat mic		
Name a	nd Official Title	(Please type or print)	Engli	Sig	nature		1				Date Signed	2016	
			J										
EPA For	m 7520-14 (Re	v. 12-11)		المستشفادين		Constitution of the second							

